CLAIMS ..

A method of absorbing hydrophobic water-immiscible liquids comprising treating the liquid with cellulosic plant material which has been modified to render it relatively more absorbent to hydrophobic water-immiscible liquids by chemical reaction of hydroxyl groups in the lignocellulose material.

- 2. A method as claimed in claim 1 wherein the modification is esterification.
- 3. A method as claimed in claim & wherein the esterified material has a weight gain of 5-40% as compared to the unesterified material.
- 4. A method as claimed in claim 3 wherein the weight gain is 12 to 25%.
- 5. A method as claimed in any one of claims 2 to 4 wherein the acid residues in the esterified material are of the formula Alk-C-(O)-O in which alk is an alkyl group of 1 to 4 carbon atoms.
- 6. A method as claimed in claim 5 wherein the esterification : is acetylation.
- 7. A method as claimed in any one of claims 1 to 6 wherein the plant material comprises lignocellulose.
- 8. A method as claimed in claim wherein the lignocellulose is thermomechanically pulped fibre.
- 9. A method as claimed in claim * wherein the lignocellulose comprises plant material chips, plant stem segments and/or whole plant stems.
- 10. A method as claimed in amy one of claims 1 to 6 wherein the source of the lignocellulose is selected from wood, straw, flax, linseed, bagasse sisal, jute, kenaf, miscanthus, coir, cotton and hemp.
- 11. A method as claimed in any one of claims 1 to 10 wherein the water-immisciple liquid is an oil.
- 12. A method as claimed in claim'll wherein the oil is an oil spillage in water.
- 13. A method as claimed in claim 12 wherein the modified plant material is spread on to the surface of the water.
- 14. A method as claimed in claim 12 which comprises drawing through the oil an article which comprises the modified plant material within an outer covering through which the oil may pass.

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15. A method as claimed in any one of claims 1 to 10 wherein the water-immiscible liquid is an organic solvent or a pesticide residue.

16. A method as claimed in any one of claims 1 to 10 for the filtration or removal of a hydrophobic water-immiscible liquid from a mixture of such a liquid with water.

17. A method as claimed in any one of claims 1 to 10 for the etention of transformer oil on a paper.

18. A method of absorbing hydrophobic water-immiscible liquids comprising treating the liquid with lignocellulose material which has been modified to render it relatively more absorbent to hydrophobic water-immiscible liquids by chemical reaction of hydroxyl groups in the lignocellulose material.

19. The use as an absorbent of hydrophobic water-immiscible liquids of cellulosic plant material which has been rendered relatively more absorbent to hydrophobic water-immiscible liquids by chemical reaction of hydroxyl groups in the lignocellulose material.

An article for absorbing hydrophobic water-immiscible liquids comprising cellulosic plant material which has been rendered relatively more attractive to hydrophobic water-immiscible liquids by chemical reaction of hydroxyl groups in the plant material, and a covering material through which the hydrophobic liquid may pass provided around the modified plant material.

21. An article as claimed in claim 20 in the form of a boom or pillow.

22. A sheet of cellulosic plant material which has been rendered relatively more attractive to hydrophobic water-immiscible liquids by chemical reaction of hydroxyl groups in the plant material.

23. An article as claimed in claim 20 or 21 or a sheet as claimed in claim 22 wherein the plant material comprises lignocellulose.

24. An article or sheet as claimed in claim 23 comprising acetylated lignocellulose.

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